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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/554,005	08/31/2006	Kirill Zyskovich Bochaver	V-323	4673
802 PATENTTM.U	7590 05/29/200 <b>S</b>	EXAMINER		
P. O. BOX 8278		SINGH, PREM C		
PORTLAND, OR 97282-0788			ART UNIT	PAPER NUMBER
			1797	
		MAIL DATE	DELIVERY MODE	
			05/29/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Falsesing or ino many be available under the provision of 37CF1 -136la). In or event, however, may a reply be timely flad  If NO pend for reply is specified above, the maximum statutory period will apply and will explye SIX (ii) MONTHS from the mailing date of this communication. Fallurs in reply will be made or centered period for reply is specified above, the maximum statutory period will apply and will explye SIX (ii) MONTHS from the mailing date of this communication. Fallurs in reply will be made for explicit and the maximum statutory period will apply and will explye SIX (ii) MONTHS from the mailing date of this communication, even if timely filed, may reduce any settle of period to become Alfaboty. Set 1333. Any poly procedule by the Office later than from morths after the mailing date of this communication, even if timely filed, may reduce any settle period of the communication of the communication of the communication is period to be communication.  Status  1) A Responsive to communication(s) filed on 31 August 2006.  2a) This action is FINAL.  2b This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-2 is/are pending in the application.  4) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) 1-2 is/are pending in the application.  4) Claim(s) 1-2 is/are rejected.  7) Claim(s) is/are objected to by the Examiner.  10) The specification is objected to restriction and/or election requirement.  Application Papers  9) The provision of the application is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority unde			Application No.	Applicant(s)				
PREM C. SINGH   1797  The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION IN DEPENDENCE of the existing date of this communication If NO period for reply is specified above, the maximum statukery particle will apply and will expire SEX (5) MONTHS from the maxing date of this communication If NO period for reply is specified above, the maximum statukery particle will apply and will expire SEX (5) MONTHS from the maxing date of this communication If NO period for reply is specified above, the maximum statukery particle will apply and will expire SEX (5) MONTHS from the maxing date of this communication, which is the second patient term adjustment. See 37 CFR 1.70(b).  Status  1) See Responsive to communication(s) filled on 31 August 2006.  2a) This action is FINAL.  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1/3 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are objected to by the Examiner.  10) The profit of the application is objected to by the Examiner.  Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filled on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.15(d).  11) All b) Some * c) Mone of:  12 Certified copies of the priority documents have been received in A	Office Action Summary		10/554,005	BOCHAVER, KIRILL ZYSKOVICH				
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1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)	Attachment(s)							
	2) Notice of Draftsperson's Patent Drawing I		Paper No(s)/Mail D	ate				
3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application  Other:								

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Letechin (WO 02/14412 A1).
- 4. With respect to claims 1-3, Letechin discloses a method for recycling organic polymer waste including rubber and thermal liquefaction of wastes at a temperature of at least 270°C at increased pressure (up to 6.1 MPa) in at least one solvent, i.e., alkyl benzene; separation of the liquid fraction and its distillation characterized in that in the

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course of thermal liquefaction of the waste an increased pressure is applied while after the distillation a part of the liquid fraction whose boiling point is at about 210°C, is introduced during the thermal liquefaction of a new batch to be processed, an additional component is added to the solvent at a mass ratio of at least 1:1 (See page 11, claim 1, lines 3-12). Letechin further discloses that the mass ratio of solvent to waste is selected within the range from 1:1 to 4.2:1 (See page 11, claim 2, lines 13-15).

Letechin does not specifically disclose catalytic reforming of a part of the liquid fraction boiling below 220°C.

It is to be noted that the liquid boiling below 210°C comprises light naphtha. It is also to be noted that Letechin uses only a part of the liquid boiling below 210°C as the solvent in the next batch of thermal liquefaction. Thus, the remaining part of liquid boiling below 210°C (i.e., light naphtha) must be used elsewhere. Thus, it would have been obvious to one skilled in the art at the time the invention was made to modify Letechin invention and use the fraction boiling below 210°C elsewhere, for example, in a catalytic reforming unit and making the fraction highly suitable for upgrading to a valuable gasoline product (evidenced by Wright, US Patent 4,569,749: column 2, lines 7-13).

## Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Cha et al (US Patent 5,389,691).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to PREM C. SINGH whose telephone number is (571)272-6381. The examiner can normally be reached on 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on 571-272-1444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/In Suk Bullock/ Examiner, Art Unit 1797